

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/058229 A3

(51) International Patent Classification:
C07K 14/00 (2006.01) *A61K 38/00* (2006.01)

(21) International Application Number:
PCT/US2004/033230

(22) International Filing Date: 8 October 2004 (08.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/510,060 9 October 2003 (09.10.2003) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/510,060 (CIP)
Filed on 9 October 2003 (09.10.2003)

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 12 July 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTIVIRAL PROTEINS WITH IMPROVED PROPERTIES AND METHODS THEREFOR

Gene and AA sequence

M L G K F S Q T C Y N S A I Q G S V L T S T C E R T N G G
1 AGGAGGACAG CTATGCTGGG CAAGTCAGC CAGACCTGCT ACACAGGGC GATTCAGGGC ACCGTTCTGA CCAGCACCTG CGAACGTACG AATGGTGGCT
TCCCTCTGTC GATACGACCC GTTCAAGTCG GTCTGGACGA TGTGTGCGG CTAAGTCCCG TCGCAAGACT GGTCTGGAC GCTTGTGATGG TTACCAACCGA
Y N T S S I D L N S V I E N V D G S L K W Q P S N F I E T C R N T Q
101 ACACACTTC TAGCATTTGAT CTGAACAGGG TGAATTGAGAA TGTGATGCGG TCTCTGAATG GGCACCCGGAG CAACTCTATT GAAACCTGTC GCAACACCCA
TGTGTGAG ATCGTAACTA GACTTGTGGC ACTAACTCTT ACACCTACCG AGAGACTTTA CGCTGGCTC GTTGAAGTAA CTTTGGACAG CGTGTGGGT
L A G S S E L A A E C K T R A Q Q F V S T K I N L D D H I A N I D
201 GCTGGCGGGC AGCTCTGAC TGGGGCGAGA ATGGAGACT CGCGGGCAGG AGTTTGAG GACCAAGTC AACCTGGACG ATCACATGCC GAACTTGAT
CGACCGCCCCC TCGAGACTTG ACCGGGGCTCA YACGTTCTGA TCAAACTTC GTGGCTCTAC TGGACCTGC TAGTGTGAGG CTGTAACAT
G T L K Y E #
301 GGACCCCTGA AGTATGAA A CCGTGGACT TCAAACTTAT T

(57) Abstract: The invention provides novel recombinant proteins and compositions having non-naturally occurring N-terminal amino acids such as methionine, and methods of making and using the protein for greater anti-viral activity and less toxicity than naturally occurring proteins.

WO 2005/058229 A3